



PHILIPS

Philips Medical Systems DMC GmbH

**SERVICE MANUAL
732
SYSTEM**

Installation Manual PCR Compano

MCR 2311

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SERVICE MANUAL – SYSTEM

Installation Manual PCR Compano

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1 Introduction

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System components

A PCR Compano system consists of the following subsystems:

- Compano Reader (IR-346RU)
- PCR Preview Unit (Compano PC + optional touch screen)
- PCR User Terminal (PC + Operation Panel)
- EasyVision RAD (Sun Workstation + monitor)

Documentation

The following documentation is delivered

CD-ROM: PCR Compano Systems documentation 4512 984 25621
Containing all Manuals, Bulletins, etc. as PDF

System

Installation Manual PCR Compano This Manual

PCR Preview Unit

| | |
|---|----------------|
| Service Manual PCR Preview Unit / PCR Console | 4512 984 24581 |
| Release Bulletin PCR Preview Unit | 4512 984 24601 |
| Spare Parts List PCR Preview Unit / PCR Console | 4512 984 24631 |

PCR Compano Reader

| | |
|-------------------------------------|----------------|
| Service Manual PCR Compano Reader | 4512 984 24571 |
| Release Bulletin PCR Compano Reader | 4512 984 24591 |
| Spare Parts List PCR Compano Reader | 4512 984 24621 |

PCR User Terminal

| | |
|--|----------------|
| Release Bulletin PCR User Terminal R 1.5.1 | 4512 984 24761 |
| Service Manual sub system | 4512 984 04904 |

EasyVision RAD

| | |
|--|----------------|
| Release Bulletin EasyVision RAD R4.2.2 | 4522 220 85993 |
| Service Manual sub system | 4512 984 22362 |
| Service Manual unit | |

The spare parts list can be ordered also as paper copy.

Important to know:

The Compano PC serves as a gateway between Reader and EasyVision, emulating a PCR AC500 reader. When configuring the Reader within the EasyVision RAD configuration program you need to configure a **Reader Node** using the IP address of the Compano PC.

The **Reader ID** in the USIT configuration must always be set to "**A**", even if there are more than one Readers in the same cluster. Otherwise the USIT comes up with an error message: "Reader ID mismatch".

The PCR Preview Unit emulates a PCR AC500 system. Set the Reader type in the USIT configuration according.

The PCR Preview Unit controls the Reader: software updates, error logging, maintenance is done via this PC, patient and examination data will be delivered by the PCR User Terminal. This terminal is connected to the PCR Preview Unit via serial interface (Null modem cable).

3 Quick Installation Guide

This chapter describes roughly the steps to be performed during installation of a PCR Compano system. Detailed procedures can be found in the belonging subsystem manuals and Release Bulletins.

Installation overview

1. Unpack and install the Reader (hardware)
2. Unpack and install the PCR Preview Unit (PC) + Monitor
3. Software installation and configuration according Release Bulletin PCR Compano
4. Unpack and install USIT(s)
5. Software installation and configuration according Release Bulletin USIT(s)
6. Unpack and install EasyVision RAD
7. Software configuration according Release Bulletin EasyVision RAD

3.1 Installing the Reader

Unpack the Reader

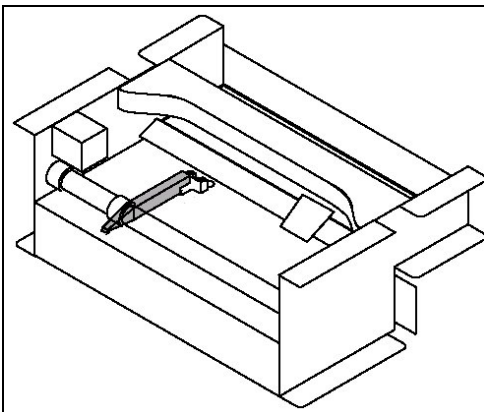
- Remove the machine-wrapping protective material.
- Remove the vinyl cover.
- Lower the machine onto the carrier pallet. As the four nuts are loosened, the machine retaining base is lowered, so that the machine rests down on the carrier pallet.
- Attach the displacement prevention member.
- Slide the position of the fitting of the slope.
- Move the reader from the pallet.

Remove the transport lockings

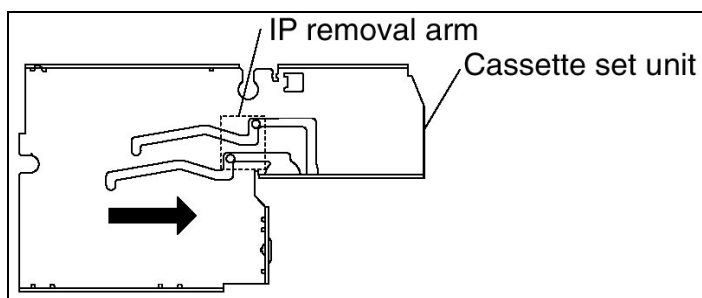
- Remove the two stripes of tape from the front cover of the reader and remove the front cover (just magnetic locking, no screws)
- Remove both black light protection covers (upper and lower)
- Remove the tape and the 4 transport lockings. Park the lockings according.
- Reseat the upper light protection cover.

Setup for inch cassettes

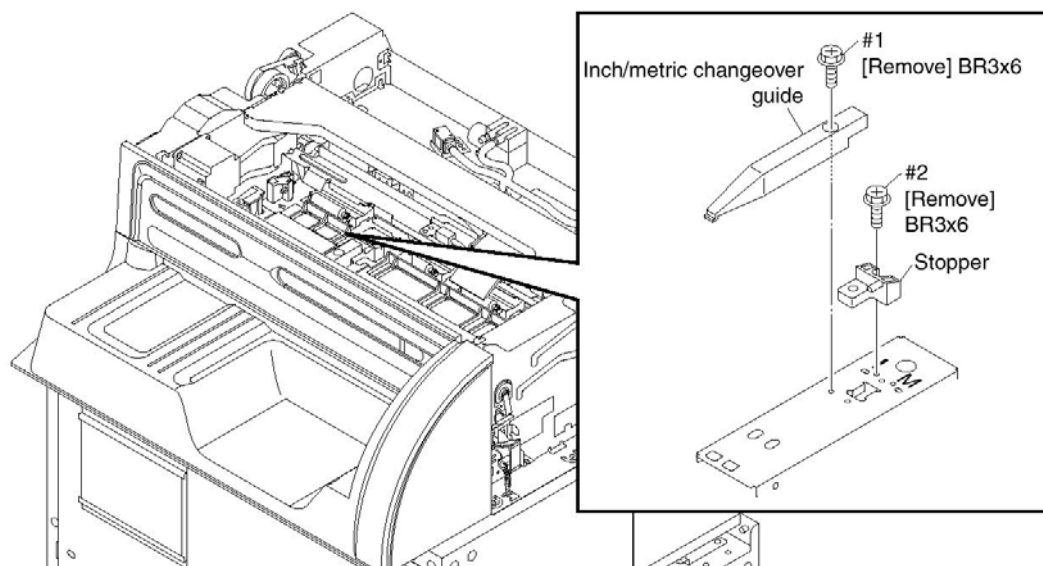
The Reader is factory set for metric cassettes. For using inch cassettes you need to adapt the cassette set unit and change the DIP switch settings on the CPU board. Please follow the instructions below.



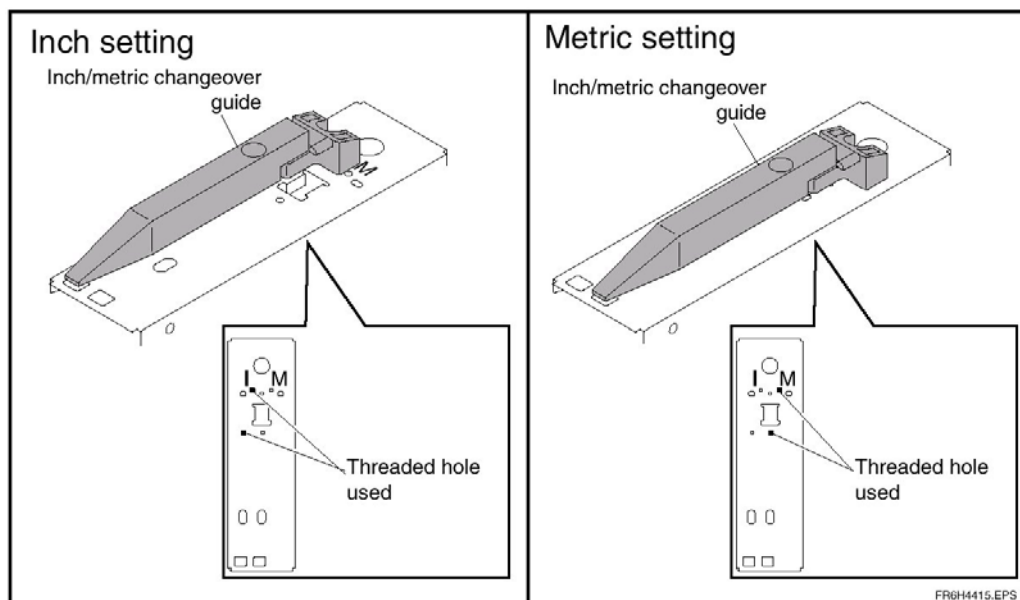
1. Remove the covers:
 - Front cover
 - Right-hand side cover
 - Left-hand side cover
 - Top cover
2. Move the IP removal arm to its home position before performing the procedures.



3. Remove the inch/metric changeover guide.



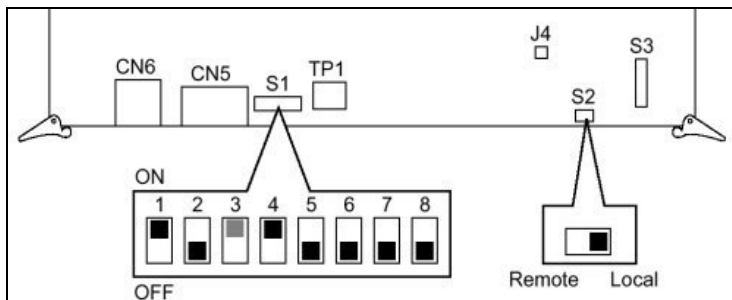
4. Install the inch/metric changeover guide as instructed in the illustration below according to the setting selected.



5. Re-install the covers.

Checking the CPU settings

- Check the DIP-switch settings (CPU board does not need to be removed):



Set switch 3 according the used cassette sizes:

OFF = Inch cassettes

ON = Metric cassettes (**default**)

Covers and cables

- Reseat the lower light protection cover.
- Connect mains power cable and network cable.

Do not switch on the reader yet.

3.2 Installing the Preview Unit

Unpacking

- Unpack the monitor
- Unpack the PC

The current types of IBM PC used are: 6568 (Netvista A40, the white one) and 6790 (Netvista M41, the black one). The identification label can be found at the front cover of the PC.

Depending on the delivered IBM PC there are slightly different connection layouts.

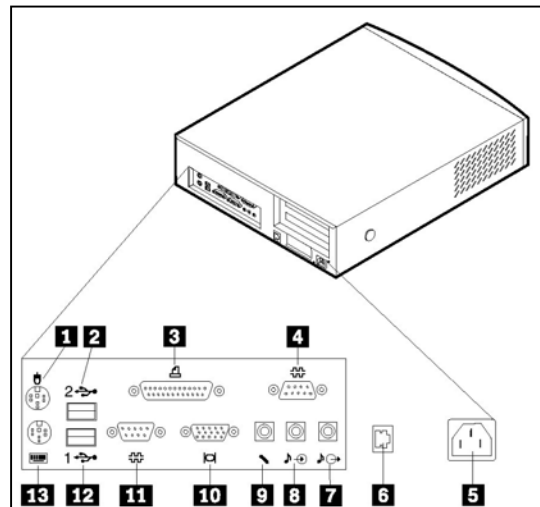
Some connectors on the rear of the computer are color-coded to help to determine where to connect the cables on your computer. The following illustrations shows the location of the connectors on the rear of the computer.

Type 6568

Cable connections

Connect the cables:

- | | | | |
|----|--------------------|---|--------------------------|
| 1 | Mouse connector | → | mouse |
| 4 | Serial port (COM2) | → | touch screen |
| 5 | Power connector | → | mains cable |
| 6 | Ethernet connector | → | network cable |
| 10 | VGA connector | → | monitor / display |
| 11 | Serial port (COM1) | → | Null modem cable to USIT |
| 13 | Keyboard connector | → | keyboard |

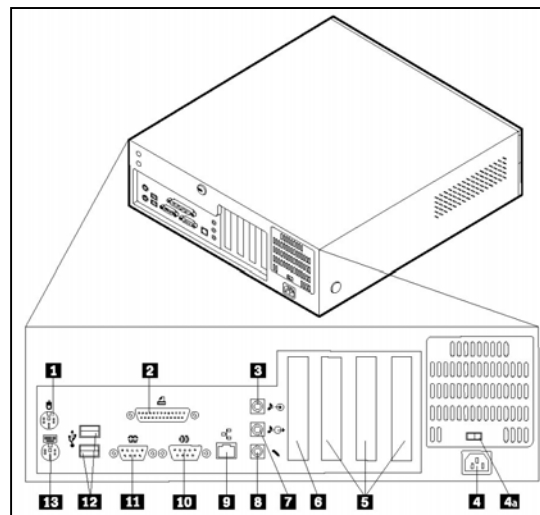


Type 6790

Cable connections

Connect the cables:

- | | | | |
|----|--------------------------|---|--------------------------|
| 1 | Mouse connector | → | mouse |
| 4 | Power connector | → | mains cable |
| 6 | VGA connector (AGP slot) | → | monitor / display |
| 9 | Ethernet connector | → | network cable |
| 10 | Serial port (COM2) | → | touch screen |
| 11 | Serial port (COM1) | → | Null modem cable to USIT |
| 13 | Keyboard connector | → | keyboard |



Set the power selector switch (4a) according to the local mains voltage to 115 V or 230 V.

Software installation and configuration

Now perform software installation and configuration according to the **Release Bulletin PCR Preview Unit**.

3.3 Installing the PCR User Terminal

Unpacking

- Unpack and install the PCR User Terminal(s).

- Make sure the PCs are set to the right mains voltage.

Cable connections

- Connect the Null Modem cable between PCR User Terminal (COM1) and the Compano PC (COM1).
- Connect the Operation Panel to the PC
- Connect mains cable to mains and connect network cable (STP) to the network.

Software installation and configuration

Now perform software installation and configuration according the **Release Bulletin PCR User Terminal**.

Please note that the **Reader ID** in the USIT configuration must always be set to "**A**", even if there are more than one Readers in the same cluster. Otherwise the USIT comes up with an error message: "Reader ID mismatch".

As **Reader type** select "**3= AC500**".

3.4 Installing the EasyVision

Unpacking

- Unpack and install the EasyVision RAD and its components including the monitor.
- Make sure the EasyVision is set to the right mains voltage.

Cable connections

- Connect peripherals (e.g. image disks) and monitor
- Connect mains cable to mains and connect network cable (STP) to the network.

Software configuration

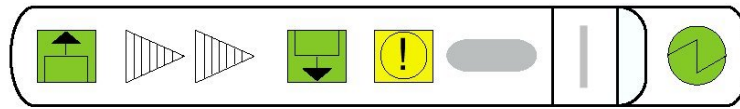
Now perform software configuration according the **Release Bulletin EasyVision RAD**

Note

When configuring the Reader within the EasyVision RAD configuration program you need to configure a Reader Node using the IP address of the PCR Preview Unit.

4 First Start-up

1. Switch on the Reader, switch on the Preview Unit.
2. The Compano application software starts automatically in a minute.
3. When starting the application is done the LEDs on the Reader panel come on and short beeps are generated indicating that the Reader software and configuration data are being updated.

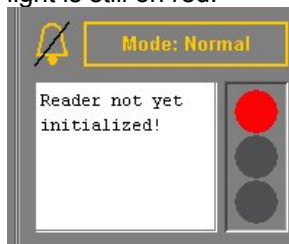


Caution

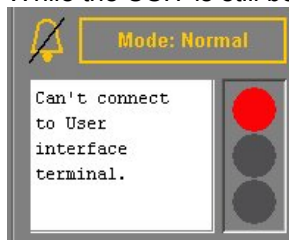
*While the Reader panel LEDs are illuminated, **never turn OFF the Reader** because its CPU board may become damaged.*

When done the application software asks to confirm the software/configuration update in the Reader: click [**Confirm**] (language dependent). The configuration data in the Reader FLASH ROM is updated and the Reader starts again the initialization process.

The application window shows a message to indicate that the Reader is being initialized and the traffic light is still on red:



4. Switch on the USIT, switch on the EasyVision.
5. When the Reader has initialized, the error message **Reader not yet initialized** should disappear.
6. While the USIT is still booting you'll get an error window and the status window shows:



7. Wait until the USIT is up and running, then click [**Confirm**] to the error message on the Preview Unit:



8. Now you should get GREEN at the traffic light. The system is operational.